

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7449	ultrasonic transmitters	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L2	1233752	receivers	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L3	2938530	path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L4	2136	L1 and L2 and L3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L5	14	"4247922"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L6	3	("4247922").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/04 15:16
L7	108	L4 and factory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L8	11	((("4,247,922") or ("5,491,670") or ("6,292,106") or ("6,433,689") or ("6,553,013"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/04 15:16
L9	6	L7 and coarse and fine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16

L10	7449	ultrasonic transmitters	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L11	1233752	receivers	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L12	2938530	path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L13	2136	L10 and L11 and L12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L14	14	"4247922"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L15	3	("4247922").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/04 15:16
L16	108	L13 and factory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L17	11	((("4,247,922") or ("5,491,670") or ("6,292,106") or ("6,433,689") or ("6,553,013")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/04 15:16
L18	6	L16 and coarse and fine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L19	0	L15 and coarse and fine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16

L20	0	L15 and coarse near7 distance and fine near7 distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L21	726	coarse near7 distance and fine near7 distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L22	0	L16 and L21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L23	2	L13 and L21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L24	16	("3076519"   "3098992"   "4055830").PN. OR ("4247922").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2010/05/04 15:16
L25	402497	ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L26	194	L25 and L10 and factory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L27	0	L26 and L21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L28	117	L26 and L12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L29	30513	("367").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/04 15:16

L30	2	L28 and L29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L31	190	L13 and L29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L32	2	L31 and factory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L33	2	L21 and L31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L34	29	L31 and triangula\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L35	37111	ultrasonic and electromagnetic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L36	4192	L35 and determine near3 position	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L37	118	L35 and determine near3 position near7 path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L38	30513	("367").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/04 15:16
L39	2	L37 and L38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16

L40	81	L36 and L38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/05/04 15:16
L41	4	((("5748106") or ("6348908"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/05/04 15:20
S1	7112	ultrasonic transmitters	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 11:15
S2	1162530	receivers	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 11:15
S3	2789288	path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 11:15
S4	2011	S1 and S2 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 11:16
S5	14	"4247922"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 11:16
S6	3	("4247922").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/07/22 11:16
S7	96	S4 and factory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 11:21
S8	11	((("4,247,922") or ("5,491,670") or ("6,292,106") or ("6,433,689") or ("6,553,013"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/07/22 11:29

S9	5	S7 and coarse and fine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:11
S10	7112	ultrasonic transmitters	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:38
S11	1162530	receivers	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:38
S12	2789288	path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:38
S13	2011	S10 and S11 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:38
S14	14	"4247922"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:38
S15	3	("4247922").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/07/22 14:38
S16	96	S13 and factory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:38
S17	11	((("4,247,922") or ("5,491,670") or ("6,292,106") or ("6,433,689") or ("6,553,013"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/07/22 14:38
S18	5	S16 and coarse and fine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:38

S19	0	S15 and coarse and fine	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:40
S20	0	S15 and coarse near7 distance and fine near7 distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:40
S21	687	coarse near7 distance and fine near7 distance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:40
S22	0	S16 and S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:40
S23	2	S13 and S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:40
S24	16	("3076519"   "3098992"   "4055830").PN. OR ("4247922").URPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2009/07/22 14:51
S25	377331	ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:54
S26	175	S25 and S10 and factory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:54
S27	0	S26 and S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:54
S28	105	S26 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:54

S29	29861	("367").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/07/22 14:54
S30	2	S28 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:55
S31	185	S13 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:56
S32	2	S31 and factory	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:56
S33	2	S21 and S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 14:57
S34	26	S31 and triangula\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/07/22 15:48
S35	35758	ultrasonic and electromagnetic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/01/14 12:56
S36	4013	S35 and determine near3 position	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/01/14 12:56
S37	115	S35 and determine near3 position near7 path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/01/14 12:56
S38	30223	("367").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/01/14 12:57



S39	2	S37 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/01/14 12:57
S40	76	S36 and S38	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2010/01/14 12:57

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L42	0	locating arrangement same plurality same ultrasonic transmitters same path and electromagnetic reciever and one identification unit same ultrasonic receiver same electromagnetic transmitter same evaluation and distance same between adjacent ultrasonic transmitter same greater than one meter and evaluation unit same operable same determine same coarse resolution same reception signal same at elast one electromagnetic radiation receiver same reception same been sent same electromagnetic same transmitter same least one identification unit.clm.	USPAT; UPAD	NEAR	ON	2010/05/04 16:30
L43	0	locating arrangement same plurality same ultrasonic transmitters same path and electromagnetic reciever and one identification unit same ultrasonic receiver same electromagnetic transmitter same evaluation and distance same between adjacent ultrasonic transmitter same greater than one meter and evaluation unit same operable same	USPAT; UPAD	NEAR	ON	2010/05/04 16:30

		determine same coarse resolution same reception signal same at elast one electromagnetic radiation receiver same reception same been sent same electromagnetic same transmitter same least one identification.clm.				
L44	0	locating arrangement same pluality same ultrasonic transmitters same path and electromagnetic reciever and one identification unit same ultrasonic receiver same electromagnetic transmitter same evaluation and distance same between adjacent ultrasonic transmitter same greater than one meter and evaluation unit same operable same determine same coarse resolution same reception signal same at elast one electromagnetic radiation receiver same reception same been sent same electromagnetic same transmitter same least one.clm.	USPAT; UPAD	NEAR	ON	2010/05/04 16:30
L45	0	locating arrangement same pluality same ultrasonic transmitters same path and electromagnetic reciever and one identification unit same ultrasonic receiver same electromagnetic transmitter same evaluation and distance same between adjacent ultrasonic transmitter same greater than one meter and evaluation unit same operable same determine same coarse resolution same reception signal same at elast one electromagnetic radiation receiver same reception same been sent same electromagnetic same transmitter same least.	USPAT; UPAD	NEAR	ON	2010/05/04 16:30

clm.

**5/4/2010 4:32:07 PM**

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